

10
15 ————— 1000 Å InGaAs
21 ————— 1 μm InP
20 ————— 1000 Å InP
19 ————— 50 Å InGaAs $p = 5 \times 10^{17}$
14 ————— 250 Å InP $p = 6 \times 10^{17}$
18b ————— 800 Å 1.15 Q $p = 5 \times 10^{17}$
17 ————— 700 Å 1.24 Q undoped
16 ————— 50 Å QW undoped
17 ————— 100 Å 1.24 Q undoped
16 ————— 50 Å QW undoped
17 ————— 100 Å 1.24 Q undoped
16 ————— 50 Å QW undoped
17 ————— 700 Å 1.24 Q undoped
18a ————— 800 Å 1.15 Q $n = 5 \times 10^{17}$
22 ————— 5000 Å InP $n = 1 \times 10^{18}$
11 ————— n⁺ InP Substrate

Fig. 1

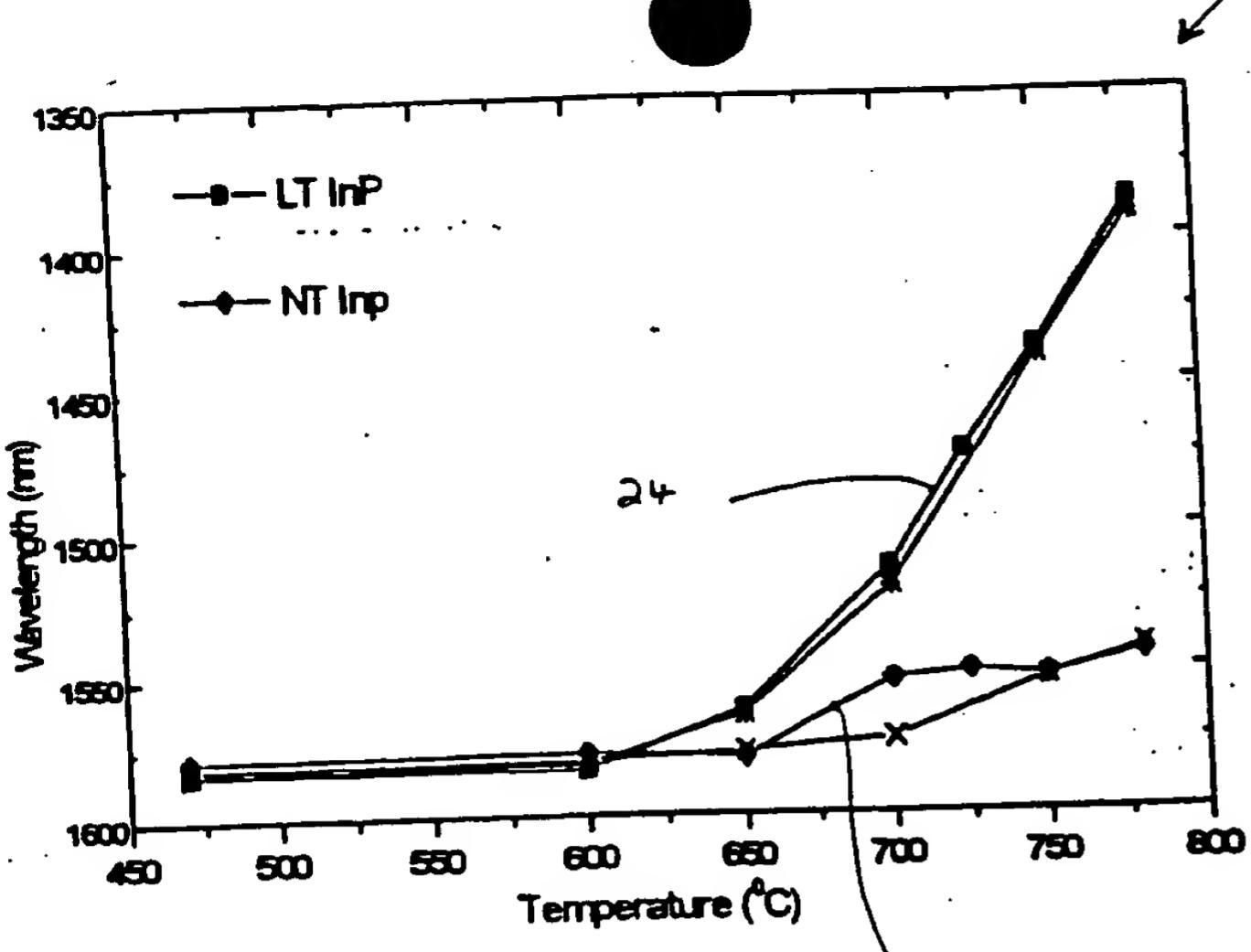


Fig. 2

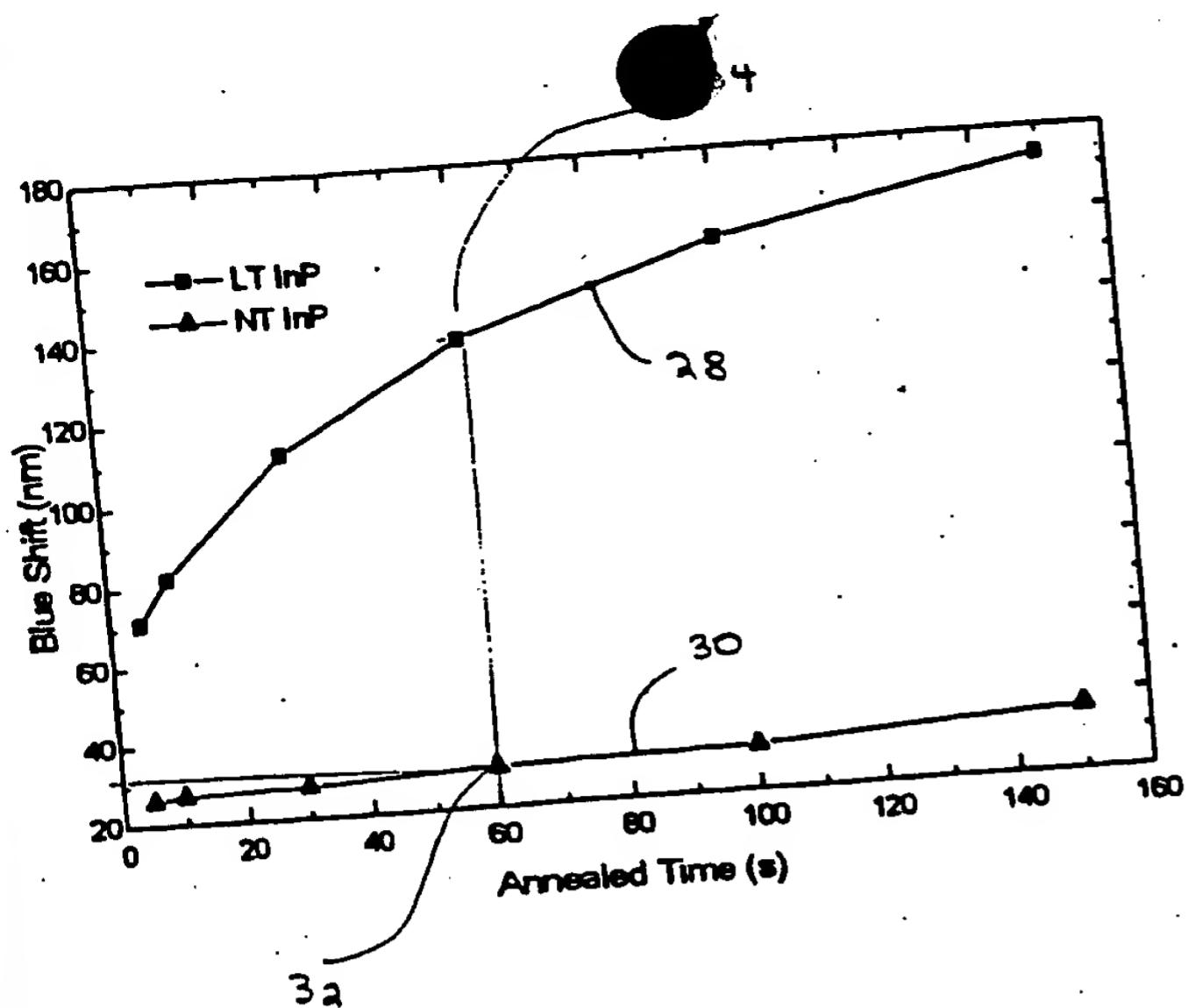


Fig.3

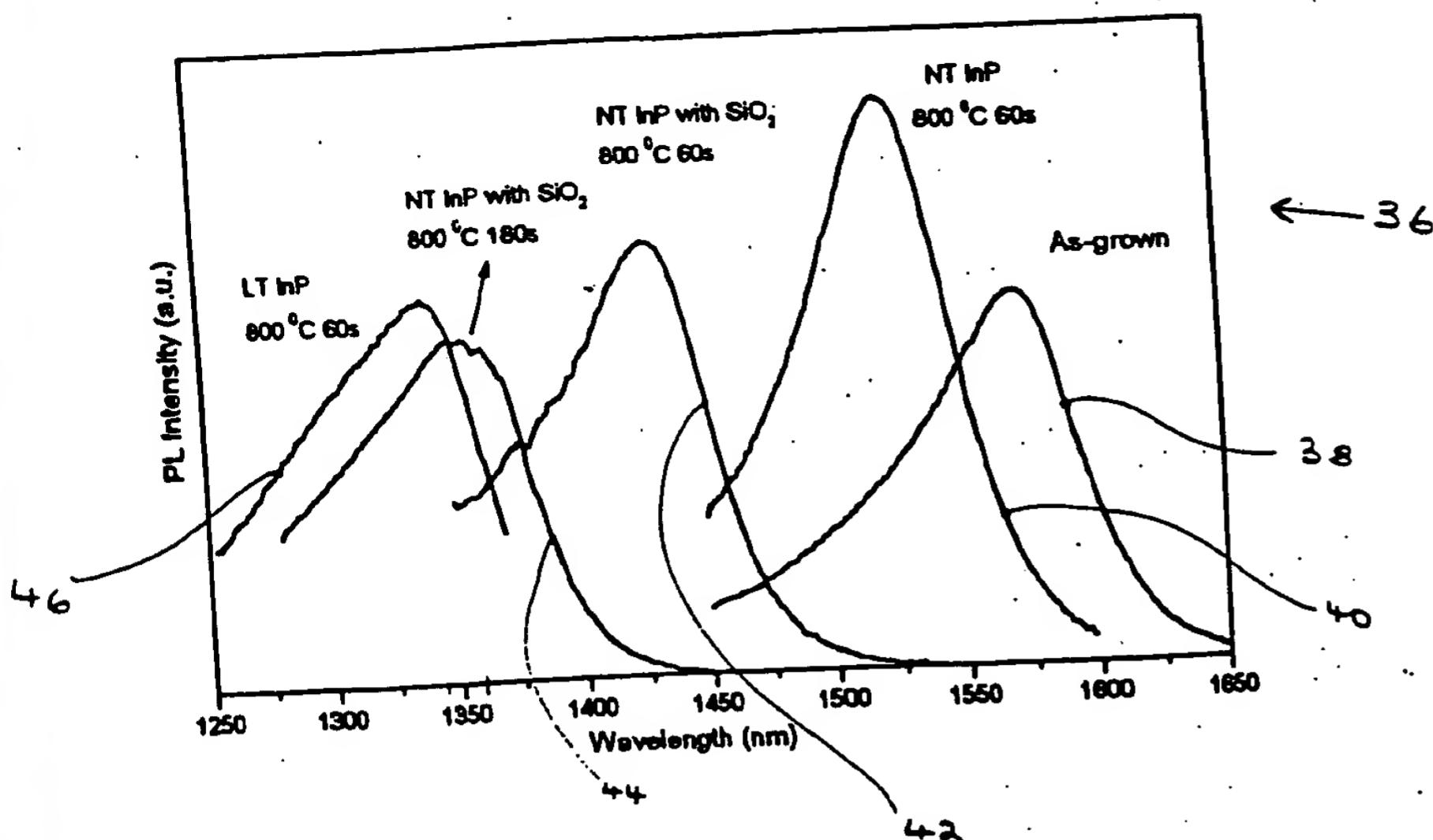


Fig. 4

100
105
114
102
112
108b
107
106
107
106
107
106
107
108a
110
120

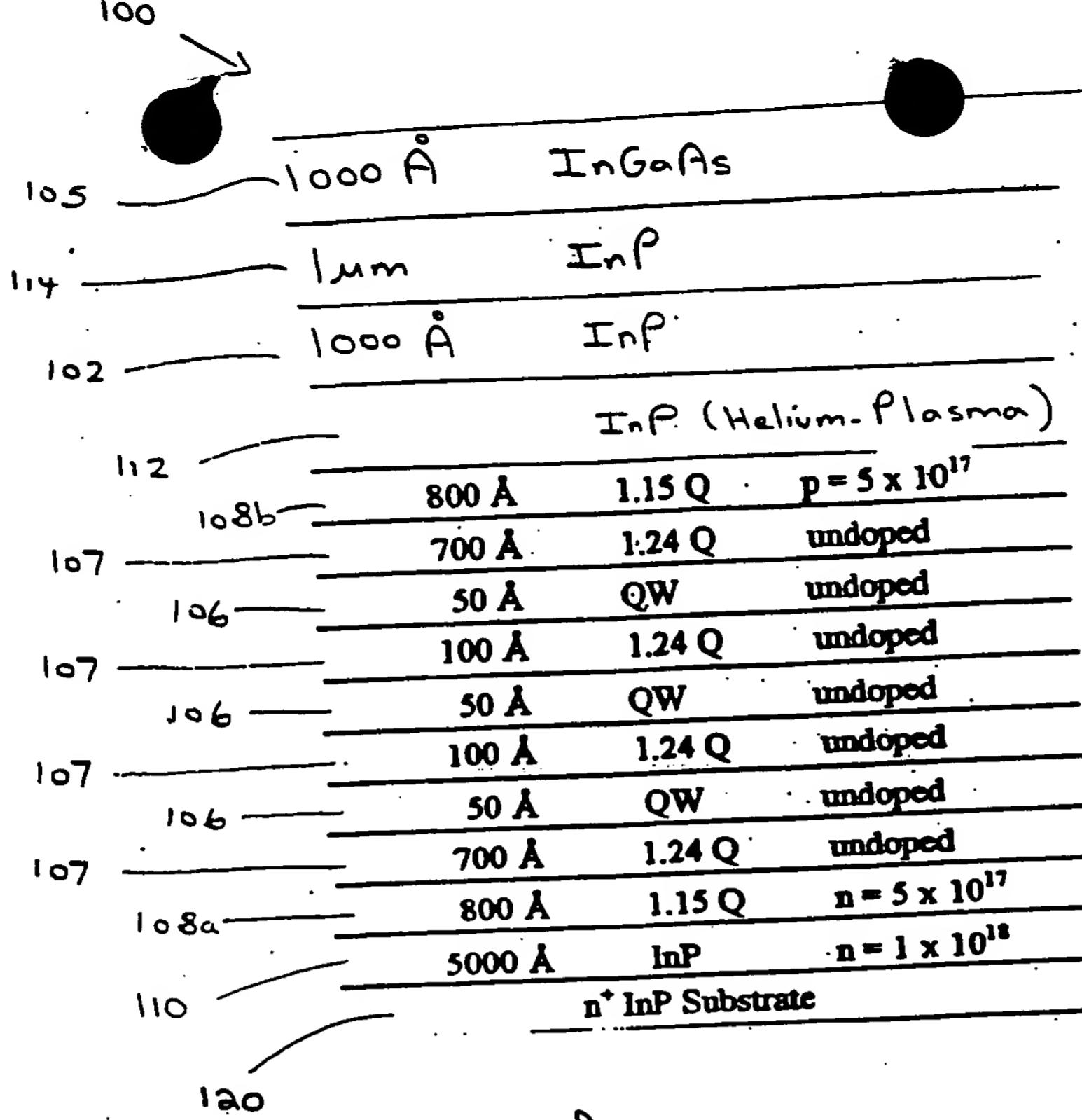


Fig 5a

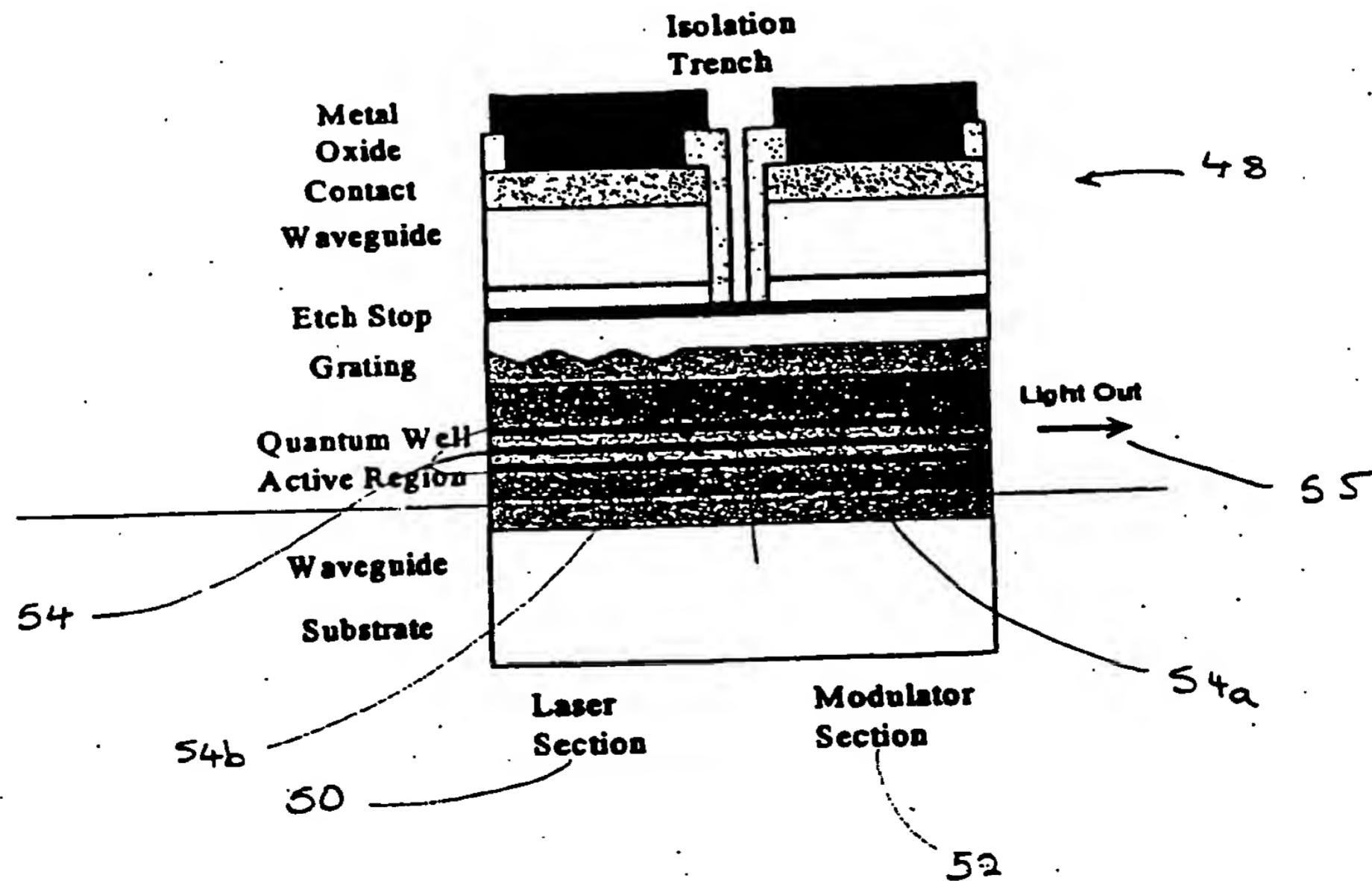


Fig. 5b

Fig. 6 shows the extinction ratio versus modulator voltage for two different values of β .

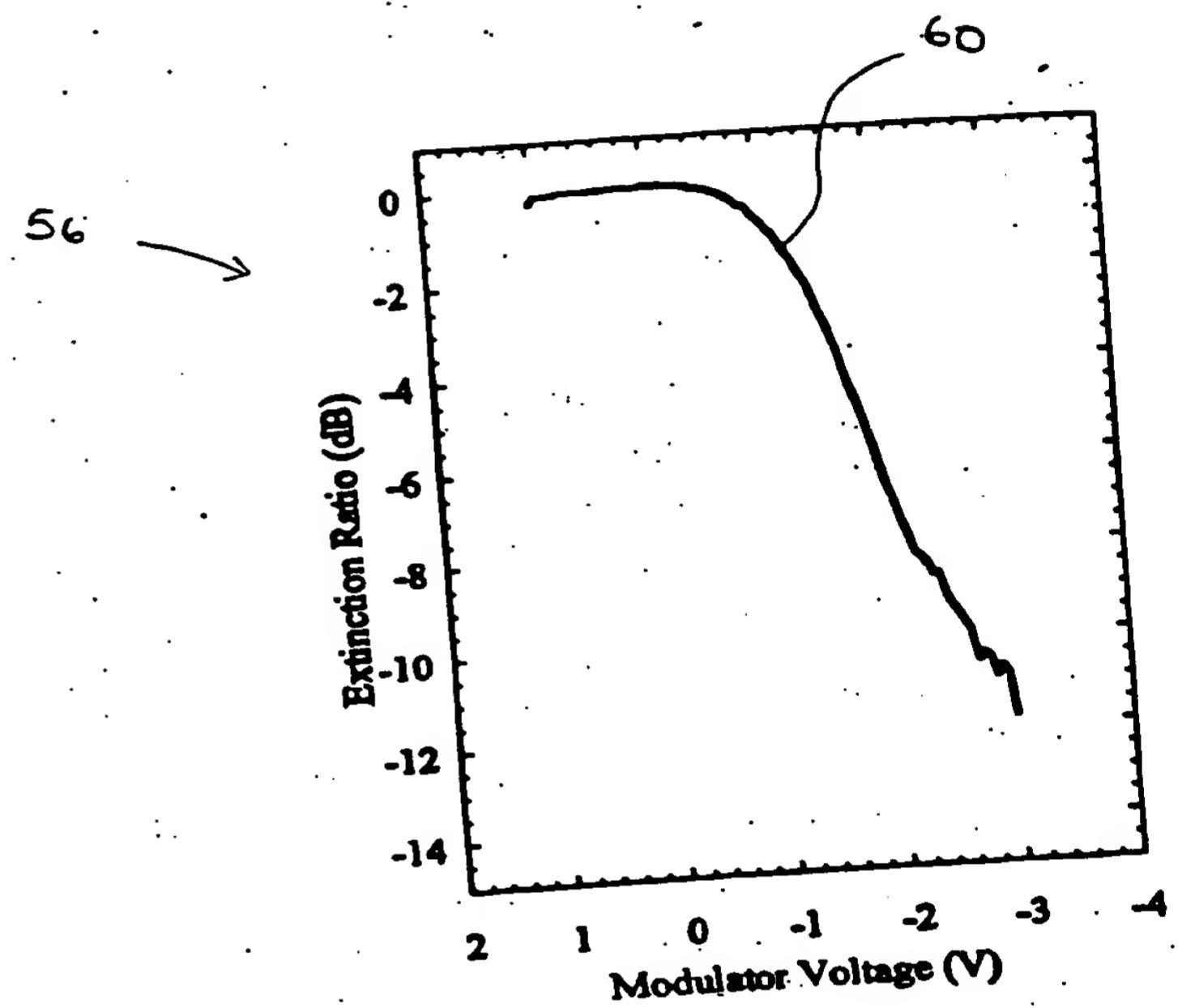


Fig. 6